

NEW... LOW COST, HIGH SPEED LINE PRINTER



LOWEST RFI... SHEPARD MODEL 400

Speed — up to 1200 lines per minute (alpha-numerics)
up to 2400 lines per minute (numerics only)

Column Capacity — 1 to 200 characters per print line.

Character Set — Standard 64 alpha numeric font; many other fonts available on order.

The new Model 400 has an extremely low RFI factor. RFI has been drastically reduced by the following unique features . . .

Specially designed, high efficiency solenoids require less drive current. Electrical and magnetic interaction between the solenoids and their associated circuits is virtually eliminated.

Firing circuits — a new design of the firing circuits associated with the solenoids reduces peak currents drawn from the power supply by a factor of more than 3 to 1.

Lead lengths — As a direct result of the reduced power requirements and the high internal efficiency of the firing circuitry, heat dissipation is negligible, hence the firing circuits can be physically packaged in a small area **positioned immediately adjacent to the solenoids**. Elimination of long lead lengths, and of high peak currents from the power supply, correspondingly reduce radiation of RF noise and interference.

Paper Shear - End of job shear can be provided to physically separate jobs being handled by a data processing center. This can be worthwhile insurance against loss of data due to mixing of several jobs.

*"Shepard" and "Minityper" are trademarks of Shepard Laboratories, Inc.
Shepard products are covered by many issued and pending patents.



SHEPARD LABORATORIES, INC.
480 Morris Avenue, Summit, N. J. 07901
(Area Code 201) 273-5255

***SHEPARD**

. . . The pioneer in high speed printing
development for 15 years.

REQUEST FOR QUOTATION

COMPANY _____ (Name and Address)

YOUR NAME and TITLE

TELEPHONE NUMBER

Area Code _____

DEPARTMENT _____

Telephone Ext. _____

SPECIFICATION

1. **COLUMNS** per line _____
Active columns _____
Blank spaces _____

2. **CHARACTERS SET:** Quantity _____
Alpha ☐ Numeric ☐ Symbols ☐

3. **COLUMN SPACING** _____ Characters/in. (hor.)

4. **LINE SPACING** _____ Characters/in. (ver.)

5. **PRINTING RATE** _____ Lines/Minute

6. **PAPER:** Width _____ in. Num. Copies _____
Roll ☐ Fanfold ☐

7. **FEED:** Sprocketed ☐
Unsprocketed ☐

8. **INPUT DATA SIGNAL**
Logic "O" _____ Volts: Logic I _____ Volts
Maximum Current _____ MA

9. **DATA INPUT RATE** _____ **CODE** _____

10. **BUFFER MEMORY REQUIREMENTS**

None ☐ 1 Line ☐ 2 Line ☐

11. **SIGNAL INPUT**

BIT; Serial ☐ CHARACTER; Serial ☐
Parallel ☐ Parallel ☐

12. **INPUT POWER**

110-120 Volts ☐ 200-250 Volts ☐ Other ☐
Single phase ☐ Other _____

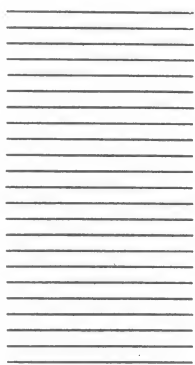
13. **RFI — YOUR APPLICABLE SPECIFICATION**
(attach copy if available)

14. **MANUFACTURING SPECIFICATION**

Commercial ☐ Government ☐

15. **QUANTITY** _____ **REQUIRED DELIVERY** _____

16. **SPECIAL INTERFACE DATA**



FIRST CLASS
MAIL
Permit # 444
Summit, N. J.

SHEPARD LABORATORIES, INC.
480 MORRIS AVENUE
SUMMIT, N. J. 07901

BUSINESS REPLY MAIL
NO POSTAGE STAMP NECESSARY IF MAILED IN U.S.

Thank you

Your recent request for literature is appreciated.
We trust that the enclosed brochure will provide you
with the information required.

We will prepare a quotation for a Shepard printer in compliance with your needs, if you will return this card indicating your specific requirements. Please enclose any other specifications or application data you feel are pertinent.

We welcome your inquiry and will be looking forward to hearing from you again.

Shepard Laboratories, Inc.
480 Morris Avenue
Summit, N. J.

Telephone: 201-273-5255

SHEPARD — PIONEER IN HIGH SPEED PRINTING DEVELOPMENT FOR FIFTEEN YEARS

STAPLE HERE

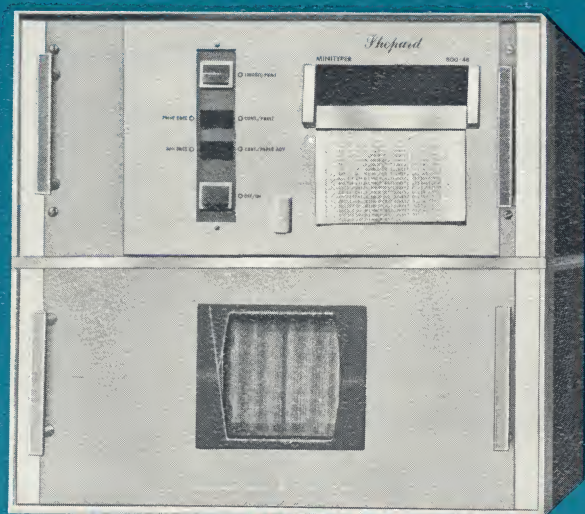


NOW AVAILABLE UP TO 48 COLUMNS AT 40 LPS

ABCDEFGHIJKLMNOPQRSTUVWXYZ-+<=>_\$(" : ? ! , @ 0 1 2 3 4 5 6
 Δ ABCDEFGHIJKLMNOPQRSTUVWXYZ-+<=>_\$(" : ? ! , @ 0 1 2 3 4 5
 < Δ ABCDEFGHIJKLMNOPQRSTUVWXYZ-+<=>_\$(" : ? ! , @ 0 1 2 3 4
 ◊ < Δ ABCDEFGHIJKLMNOPQRSTUVWXYZ-+<=>_\$(" : ? ! , @ 0 1 2 3
 % ◊ < Δ ABCDEFGHIJKLMNOPQRSTUVWXYZ-+<=>_\$(" : ? ! , @ 0 1 2
 \ % ◊ < Δ ABCDEFGHIJKLMNOPQRSTUVWXYZ-+<=>_\$(" : ? ! , @ 0 1
 @ \ % ◊ < Δ ABCDEFGHIJKLMNOPQRSTUVWXYZ-+<=>_\$(" : ? ! , @ 0

Shepard^{*} "MINITYPERS"^{*}

HIGH-SPEED PRINTERS



SHEPARD 848 RACK MOUNTED "MINITYPER"



SHEPARD 990 TABLE TOP "MINITYPER"

- **Speed** —
up to 1200 lines per minute (alpha-numeric)
up to 2400 lines per minute (numerics only)
- **Column Capacity** — 1 to 48 characters per
print line, characters spaced 10 per inch.
- **Character Set** — Standard 64 alpha numeric
font; many other fonts available on order.
- **Input Logic** — Will accept any input codes
of up to 6 binary digits in accordance
with customer specifications.
- **Electronics** — All solid state; self contained
power supply.
- **Ultra-Reliability** — Printer mechanism proven
by billions of lines of operation.
- **Mode of Operation** — Synchronous or
asynchronous. (Ready-Strobe Operation)
- **Hammer Solenoids** — Specially designed,
high efficiency, virtually infinite life.

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SPECIFICATIONS • MODELS 848 & 990

SHEPARD series of "MINITYPERS" have been designed for the highest reliability and utmost in speed at lowest possible prices. The company's 15 years of experience is building printers for commercial and for military systems such as POLARIS, MINUTEMAN and MOBIDIC has contributed to development of this new line.

SHEPARD "MINITYPER" printers are available with up to 48 characters per print line at printing speeds up to 2400 lines per minute (numeric), 1200 lines per minute (alpha-numeric). A model 848 "MINITYPER," 48 columns, completely buffered, is pictured on the front of this brochure. This is a two drawer package, each drawer 8 3/4" H x 19" W x 22" D.

SHEPARD HAMMER MECHANISM

The patented SHEPARD hammer design controls the print force to a finite, non-destructive value. This eliminates the need for penetration stops and prevents damage to hammers or print wheels even in the absence of ribbon or paper. This enables us to guarantee our hammers and print wheels for life.

SHEPARD SOLENOID DESIGN

The design of the hammer solenoids eliminates pivot wear and friction, and provides much higher efficiency. As a result, electrical drive requirements and mechanical vibrations are substantially reduced — long term timing accuracy is thus assured.

INDIVIDUAL CHARACTER WHEELS

Each print position is provided with its own individual character wheel. The characters on the wheel are precision formed of hardened steel by a proprietary manufacturing process.

1 to 48 COLUMNS

Although up to 48 characters per print line are offered, fewer columns can be furnished. A 24 column fully buffered "MINITYPER" is available in a single drawer package. 8 3/4" H x 19" W x 22" D.

SHEPARD PAPER FEED SYSTEM

"MINITYPERS" are supplied with our proprietary Pinch Paper Feed. This permits paper advance between printing cycles within approximately 5 milliseconds. The pinch feed mechanism provides adjustable vertical line spacing of from 4 to 8 lines per inch. (Standard is 6 lines per inch).

INKING MECHANISM

"MINITYPERS" can be furnished either with a self-reversing nylon ribbon, or an extra long life inked roller.

SHEPARD Model 848 and 990 "MINITYPERS" are available in both RACK MOUNT AND TABLE TOP styles. These units added to others in the line, including the SHEPARD Line Printers (72-200 columns) provide complete flexibility for your printer requirements.

OPTIONS

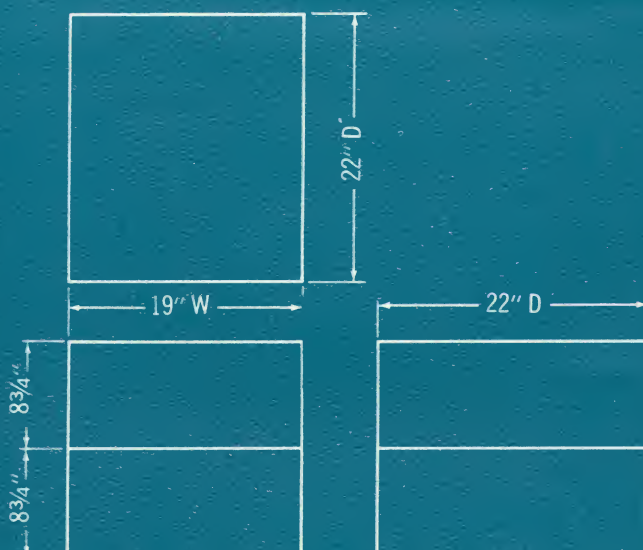
Decimal point insertion. Zero suppression. Mixed input codes. Full line buffering. Tractor feed. Special type fonts. Expandable column capacity up to 48. Speeds in excess of 40 lines/sec. with special font and electronics. Militarized construction for extreme environments.

GUARANTEE

1 year guarantee in normal service. Hammers and print wheels guaranteed for life.

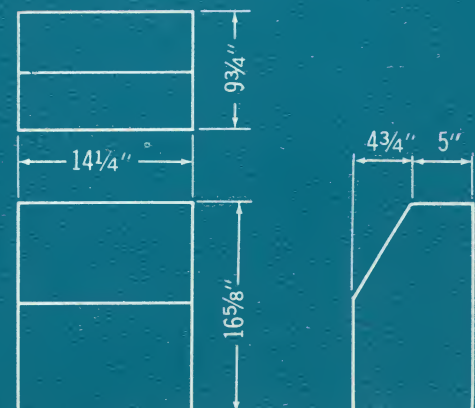
... PIONEERING IN HIGH SPEED ...

MODEL 848 RACK MOUNTED PRINTER



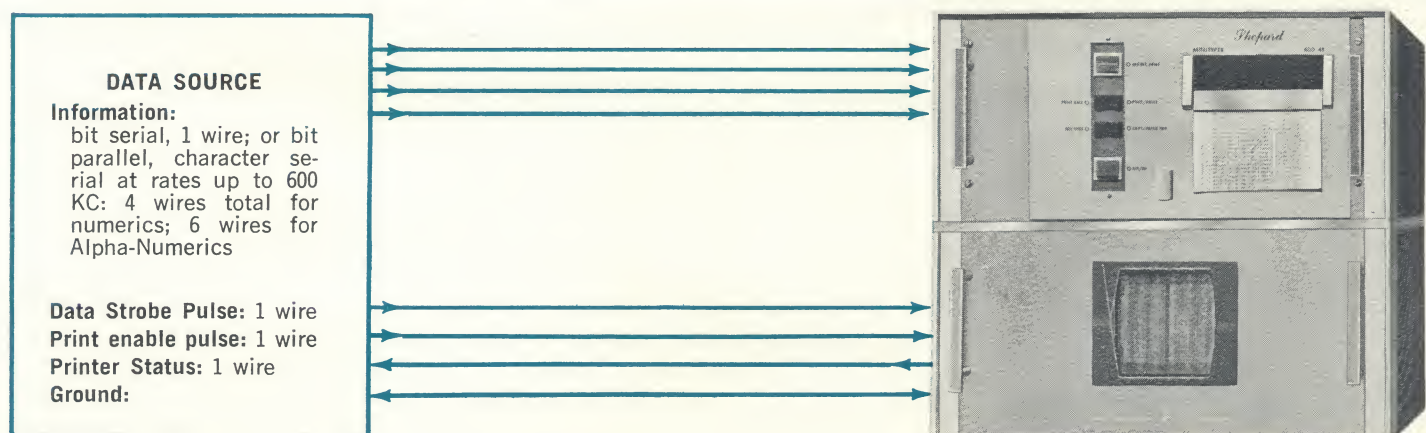
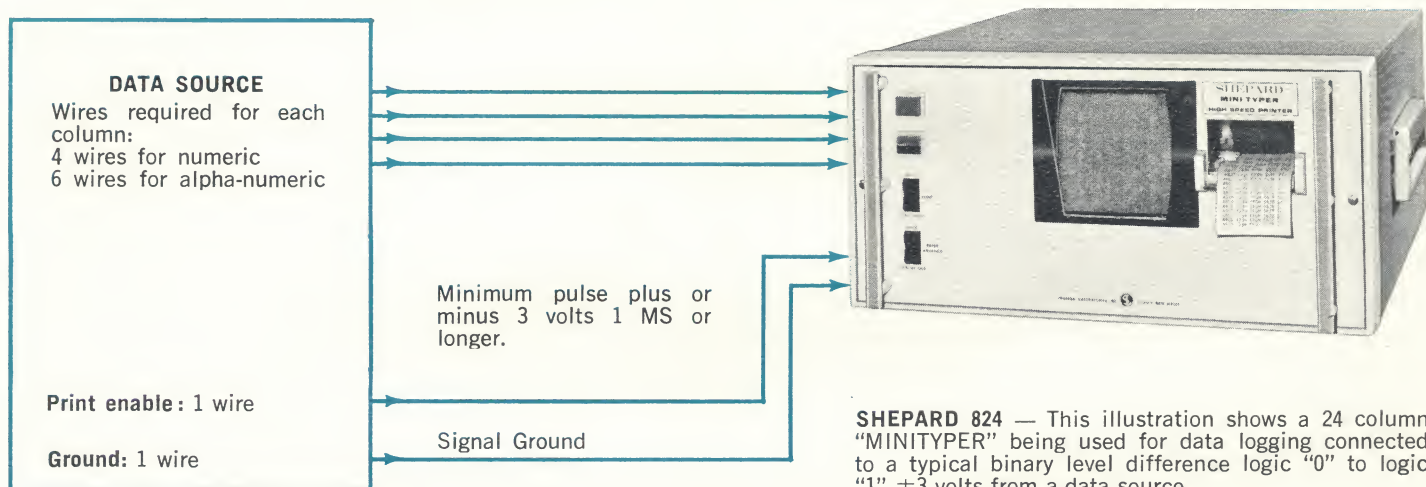
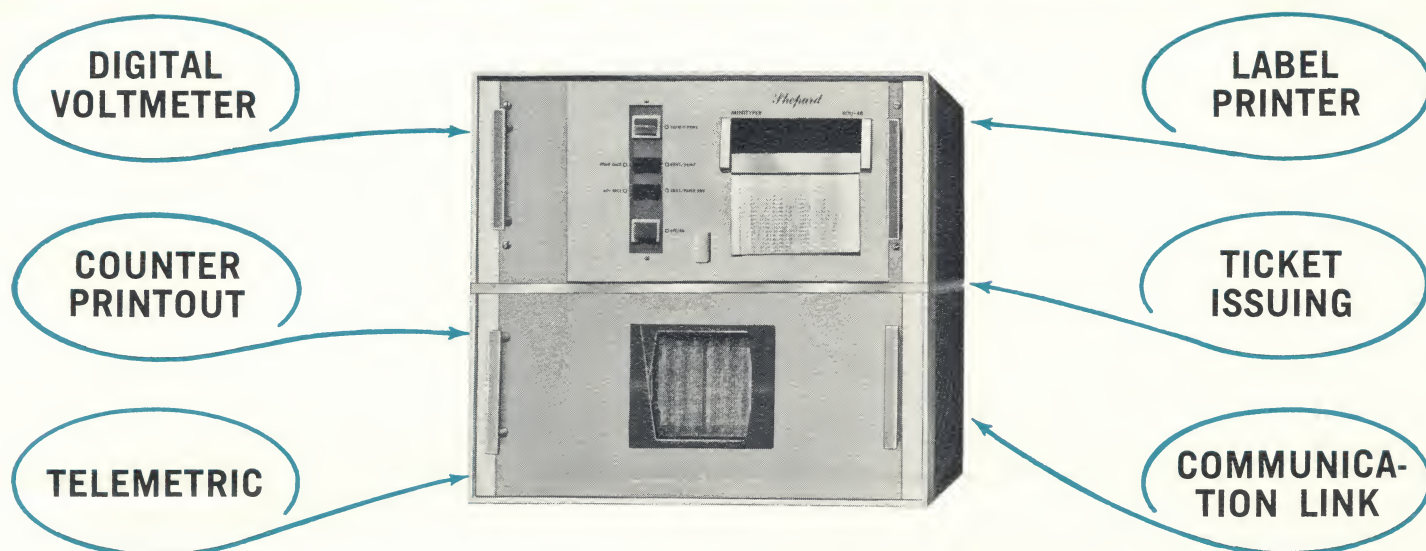
FRONT

MODEL 990 TABLETOP
PRINTER MECHANISM ONLY



FRONT

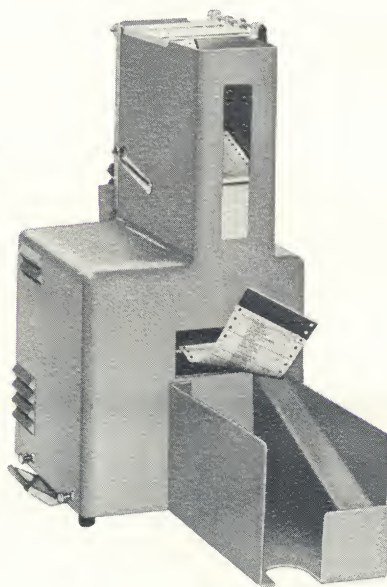
TYPICAL APPLICATIONS - SERIES 800 MINITYPERS



OTHER SHEPARD PRODUCTS

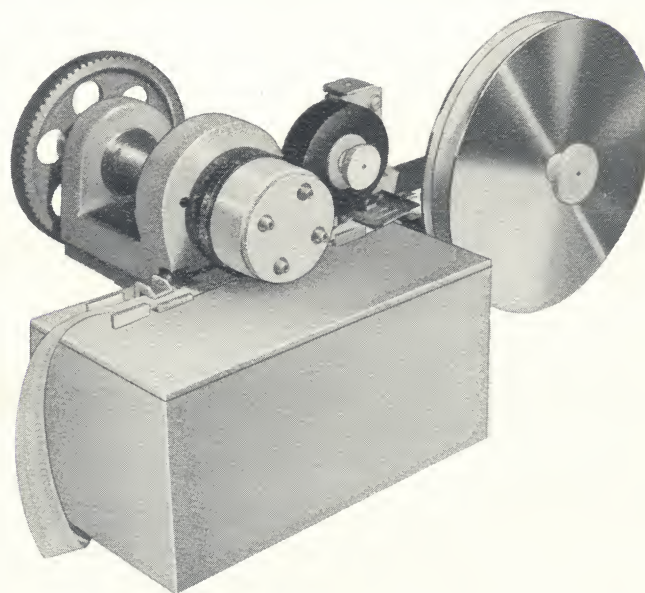
SHEPARD 400 HIGH SPEED PRINTER WITH LOW RFI

The new SHEPARD 400 features extremely low RFI factor, accomplished through the use of special solenoids and firing circuits . . . printing speeds up to 1200 lines per minute (alpha- numerics) and 2400 lines per minute (numerics) with column capacities from 72 to 200 characters synchronous or asynchronous operation . . . accepts any input code of up to 6 binary digits in accordance with requirements.



TYPICAL TICKET ISSUING "MINITYPER"

Automatic severing of individual ticket immediately upon issuance . . . single or multi-part form . . . sprocketed or unsprocketed . . . paper or card stock . . . end of stack splices, permits loading of paper without interruption or printing . . . automatic indexing of top of form.



SHEPARD 802 STRIP PRINTER

Rugged construction . . . print speed up to 50 characters per second . . . customer choice of character set and code selection . . . no inking ribbon . . . extra large paper capacity . . . low cost . . . ticker tape or strip paper . . . can be supplied with or without cabinet, electronics or power supply.



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